

RESPONSE TO DEP EMAIL OF APRIL 27, 2010

BWP-SW-21 / Transmittal # X232995

April 29, 2010

1. Ms. Vanderhoef should be the direct recipient for the permit.
2. See Figure 4, attached, for a slab cross section and other details.
3. See Figure 5, attached, for details on the block wall construction.
4. The existing emergency generator receptacle is a standard receptacle located by door of scalehouse. No new wiring is required internally or externally to enable hookup, including no new conduits below grade.

The generator will be a Kohler 100 KW diesel standby generator, self contained with integral fuel tank. The proposed generator is currently located at Eastham Police Department.

5. Thank you for providing the appropriate variance approval letter.

Separately, a question was asked regarding the way the Town manages clean wood. To be clear, no wood is sold by Eastham. Wood is part of the standard construction and demolition debris managed by the Town. The Town does separate clean wood from bulky items, however. The C&D and separated clean wood all go to Cassella in Sandwich where it is sorted further at their facility and disposed of as they report to DEP. When items such as sofa beds and pianos arrive, the Town excavator is used to separate any metal from the rest of the material. Salvaged metal is carted to licensed scrap yards as listed on the annual facility report for the transfer station

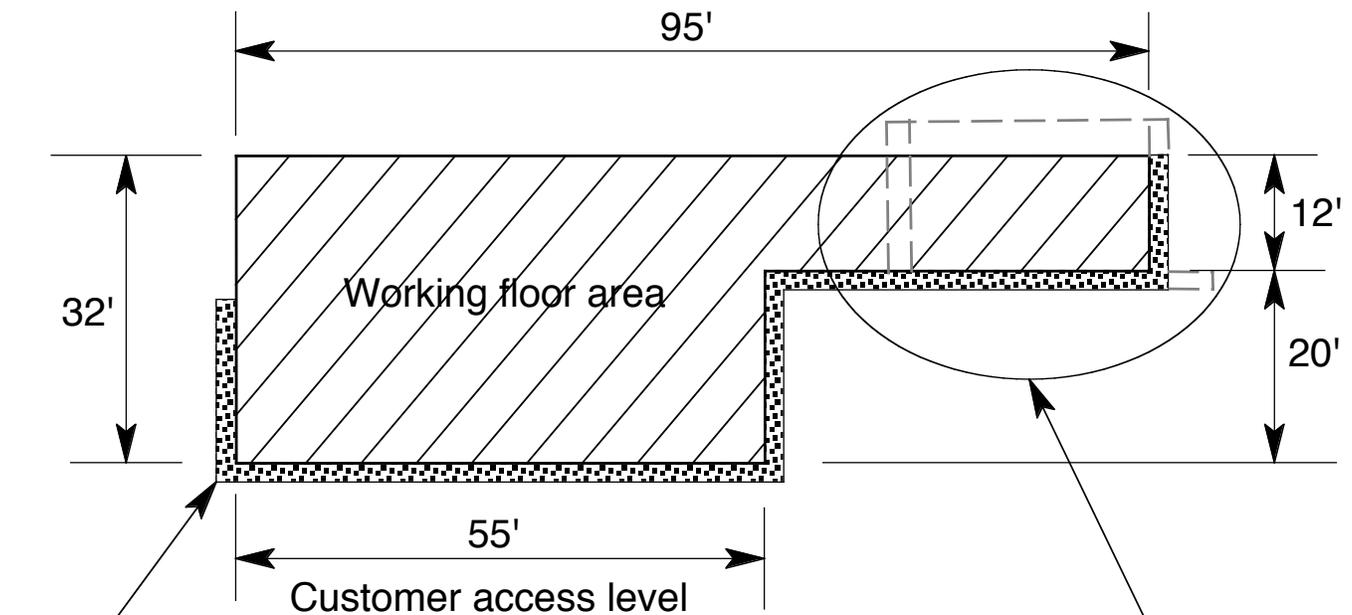
A question was also asked about the grade differential at the proposed new C&D area and separation of work flow areas from customer flow areas. Figure 2 has been revised to clarify how the new facility would function.

Tom Pawlina, PE

A T P Environmental

Summary of Email of April 27, 2010

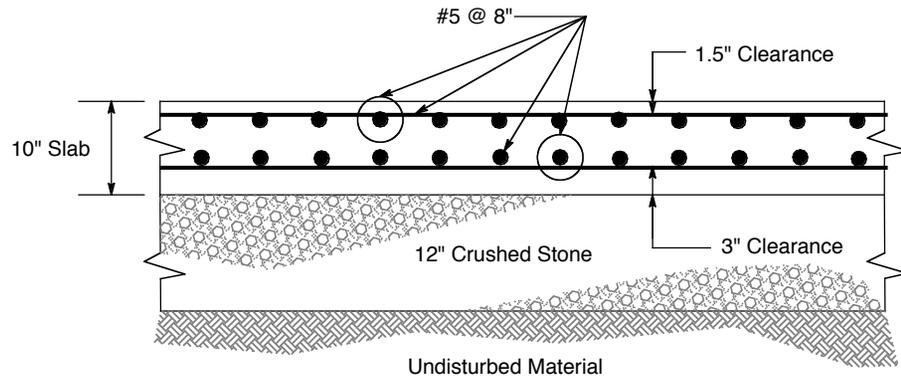
- 1) Is Ms. Vanderhoef still the correct contact and direct recipient for the permit or should Neil Andres be used?
- 2) Please provide a cross section sketch of the slab thickness and reinforcing.
- 3) Please provide details on the block wall construction. A cross section showing maximum height and construction materials and any tie back reinforcing should be submitted. I do not need stability calculations but the drawing should be stamped by a PE to show that it is designed by an engineer.
- 4) You mention the existing interior and exterior wiring for the emergency generator. Is this underground or overhead wiring? Please confirm that the only new wiring will be a new connection right at the generator itself, and that this connection will not involve installing any conduits below grade. How is the generator powered? Will there be a fuel tank? Is the tank integral to the generator?
- 5) Attached is the variance approval that was not in the application. Trees were planted as a buffer to the bike trail. Any approval will require that the trees be inspected and areas of any dead trees be replanted since the area requiring the original variance is increasing.



Existing construction and demolition dropoff area to be replaced. Open topped trailers will be positioned here for use by staff.

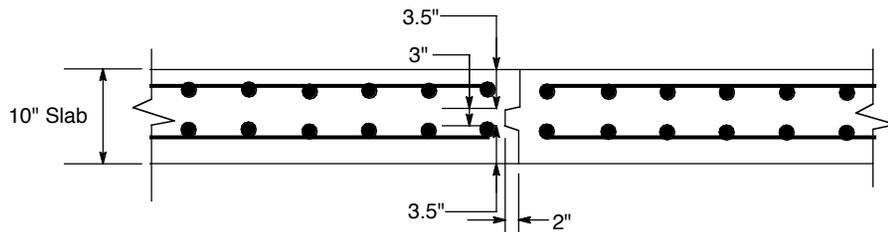
Scale: 1" = 20'

*Figure 2 - New CD Dropoff Area
Permit Application
BWP-SW-21
New CD Area*



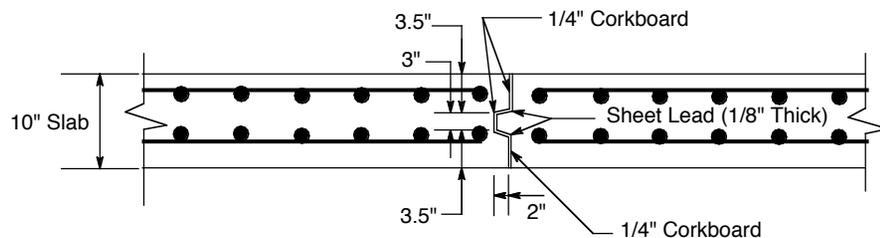
Reinforced Concrete Pad Section

Not to Scale



Typical Construction Joint

Not to Scale



Expansion Joint

Not to Scale

Reinforced Concrete Construction Notes

1. Undisturbed material below concrete slab shall be compacted to a minimum of 95% modified proctor optimum density in conformance with ASTM D 1556.
2. No concrete shall be placed in water or on frozen bearing stratum.
3. Prior to placing any layer the area shall be inspected and approved by the project engineer for adequacy of bearing, slope, and compaction.
4. Field compaction tests shall conform to ASTM D – 1556.
5. Provide continuous drainage by mechanical methods to control surface and ground water as required during construction.
6. Pad concrete shall comply with ACI 301 specifications for structural concrete for buildings and ACI recommended practices for concrete formwork, transporting and placing concrete and cold weather concreting for details not otherwise specified.
7. Submit proposed concrete mix designs for review and obtain engineer's approval prior to placing concrete.
8. All concrete shall be quality controlled normal weight concrete meeting a minimum compressive strength in 28 days of 4000 PSI.
9. Do not place concrete until the reinforcing steel has been inspected and approved by the engineer or the testing agency's engineer of the job.
10. Reinforcing bars shall conform to ASTM A615, grade 60, UON. All reinforcing shall be epoxy coated rebars conforming to the requirements of the Fusion Bonded Coaters Association.
11. The development strength at laps shall be in accordance with ACI 318.
12. All concrete work shall conform to the requirements of the American Concrete Institute, ACI 318.
13. All reinforcing steel shall be held rigidly and accurately in place. Bars shall be securely wired together and protected against displacement before and during placement of concrete.
14. Keys at joints in concrete slab shall taper from 2-3/4" to 3" (TYP).
15. Concrete slump shall not exceed 4".
16. Contractor to verify all dimensions in the field.
17. Concrete pad shall be constructed with construction joints placed at 25' spacing on center and with expansion joints placed at 50' spacing on center
18. Reinforcing shall be continuous through construction joints and end 2' clear of expansion joints.

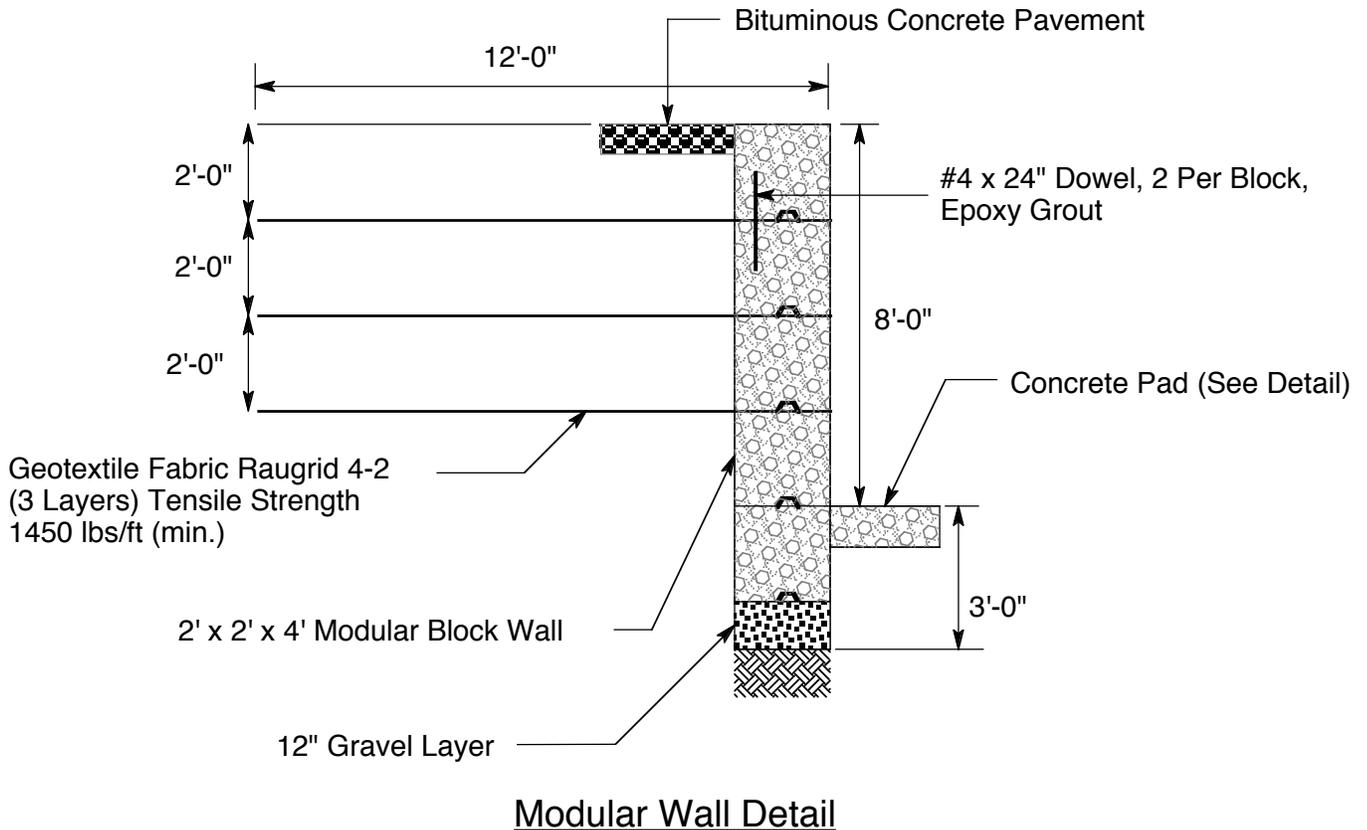
Figure 4
BWP-SW-21 / X232995

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Notes

1. Alternate courses and interlock blocks at corners.
2. Carefully cut geo-textile to allow fabric to fit over the interlocking blocks and extend to the front face of the wall.
3. Adjust gravel layer thickness to maintain single block reveal above grade while maintaining a minimum of one block below grade.
4. Provide flush finish along top of wall by not providing modular block keys along the top course of blocks.



Notes on Construction of Modular Block Walls

1. Lay geotextile fabric on block wall using Sonneborn Premium Adhesive continuously 1" wide along fabric end and inside edge of blocks. Bond strength = 1000 PSI.
2. Compact soil in 12" layers. Verify minimum bearing capacity of in-situ soil at toe of blocks is 4000 PSF.

Figure 5
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